CRS BUILD 6.0 INSTALLATION PROCEDURES BACKGROUND INFORMATION

Version 1 - September 28, 1999

This document must be read before reading the CRS Build 6.0 Installation Procedures.

Procedure 1 - Check for Spanish Dictionary and Installation of Modified Printer Cable Adapter/LAN Server Changes

This procedure checks for the existence of a Spanish dictionary and creates one if necessary. It then performs the attached **Communications Equipment Modification Note Number 40 (for Electronics Technicians)**. The CRS application must be stopped before the modification note is performed. There are two parts to the modification note: replacing the existing RJ-45 to DB25M cable adapter and changing the port parameter settings on the Digi LAN Server (Operational Unit and Spare).

Procedure 2 - CRS Software Installation Procedure

The CRS build installation procedure is tailored to work with CD-ROM media for maximum efficiency and cost-effectiveness. It incorporates the following features:

- **Custom shell scripts and standard Unixware application software**

  Custom shell scripts activated from the desktop App_Installer program selectively invoke Network File System (NFS) and UnixWare package processing capabilities.

- **CD ROM based installation**

  CRS application software is distributed and installed on all processors directly from the CD-ROM on the installation main processor.

- **Selective installation**

  CRS application software can be installed on all processors, on the front-end processors only, on the main processors only, or on a selected processor in a configuration.

- **Non-standard configuration recognition**

  Software can be installed on a “non-standard” configuration (i.e., other than typical, large or maximum).

- **Optional generic site configuration**

  Generic site configuration tailored to the number of transmitters (operator specified) is optional (operator choice) when no site specific database is detected.

- **Site-specific IP-address verification**

  Site-specific IP-addresses are validated to ensure correctness and completeness on all processors in the configuration at the time of installation.

- **Minimal operator interaction**

  Operator interaction during installation is limited to simple point-and-click operations plus a small amount of text entry in response to a few multiple-choice prompts.

- **Result summary**

  A summary of any ERROR or WARNING messages generated during software

installation is presented at the end of the installation, before the shutdown prompt (below) to inform the operator of the success or failure of the installation.

The following sequence of installation steps have been fully automated in the **auto_install** script:

- Removing previously installed versions of the CRS application software packages
- Installing new versions of CRS application software packages
- Validating site-specific IP addresses on all processors
- Shutting down and restarting processors as required during installation
- Outputting and logging all installation ERROR and WARNING messages

Procedure 3 - Run ADD_SPA Utility

Operational Description

The CRS Spanish trailer is a pre-defined message that is broadcast in Spanish synthesized speech immediately following the English broadcast of the full message. It informs Spanish speaking persons of the danger and instructs them to tune to local Spanish-speaking radio or television stations. The operator may assign a specific trailer to a given English message type, and the Spanish message will be broadcast on a given channel, if the message is assigned NWRSAME tones, if it is in English, and if the Spanish DECtalk files have been uploaded to the given transmitter. The message type also determines whether the Spanish trailer will play once or always. The initial broadcast of the Spanish trailer will immediately follow the broadcast of the NWRSAME trailer codes. If necessary, broadcasts of the Spanish trailer in subsequent cycles will immediately follow the broadcast of the full English message. The Spanish trailer is pre-defined in the database as a message component, just as the Call-to-Action, Lead-In, etc. are. The only variables in the Spanish trailer are the ***&what*** (type of message), the ***&when*** (message expiration time), and the ***&var*** (listening areas).

Functional Description

The *CRS Add Spanish Utility* modifies several blocks in the site's ASCII database file. For each transmitter in Block 5 of the ASCII database file, it will increase the voice volume to 99. It also will check to see if any message types in Block 10 contain a voice parameters record. If so, it will change the amplitude to 99. The dictionary block 1 will have an additional SPA dictionary file entry if no previous Spanish entry is present. Otherwise the Spanish dictionary file that is already configured will be used. The transmitter section of Block 5 will be modified. If Spanish is not used at all, the Spanish dictionary file name for all 15 transmitters will be changed to NULL. For those transmitters that will use Spanish, the Spanish dictionary file name found in block 1 is placed immediately after the English dictionary file name in the 'Files' line. A new Spanish Trailer Component Block 7B is always placed in the ASCII file whether or not Spanish is used. A special trailer line is appended to each message type entry in Block 10 for those messages that will use the Spanish trailer. The trailer line contains the trailer mode that determines whether the trailer will broadcast once or always, the name of the trailer in Block 7B that is assigned to the message type, and the ***&what*** that will be used to define the type of message.

Procedure 4 - Enable LP Services

After installation of LP services as a result of the Build 6.0 installation, the operator must enable the Print Queue. Otherwise, queued print jobs will not print.

To verify this, select the second button from the top (Print Monitor) in the CRS Utilities window. (The CRS Utilities window can be accessed by holding down the left mouse button and moving the mouse cursor to a blank work area and then releasing the button after the desired utility is selected.) This will cause the Print Monitor window to be displayed on the screen. The printer status displayed in the Print Monitor Title Bar has three settings:

[Ready **]**	-> indicates the printer is ready
[!! Down !!]	-> indicates the printer queue has been disabled or the printer is not responding
[?? Unknown ??]	-> indicates an unknown status

After the initial installation of LP services in Build 6.0, the printer status will be **Down**, and you will not be able to print. This will only occur after the initial installation of the LP services capability. The enabling of the Print Queue is restricted to root privilege, so you will not be able to do this from the Print Monitor program that is started from the CRS Utilities window. The following procedure must be executed only once, after the initial installation of LP services in Build 6.0. It will not need to be repeated for future installations.

Procedure 5 - Activate Operator Notification of New Error Message 254

Prior to Build 6.0, CRS processed at startup weather messages which failed validation at the time of input. However, these files stand little chance of being corrected, and a significant number of these correction files may result in a dramatic increase in the time it takes the CRS system to proceed to an operational state or even prevent it from reaching such a state at all. To prevent this from happening, Build 6.0 ignores the correction files on startup, except to notify the operator that one or more of them exist. This change creates a custom error string describing this event. System Administrators must enable the new error message number 254 for operator notification from the **Error Message Format** window before the notification will be displayed in the **Alert Monitor** window when the event is recognized at startup. If for any reason the Build 6.0 software is reloaded from the installation CD onto 0MP, this error message must be enabled again by the operator.